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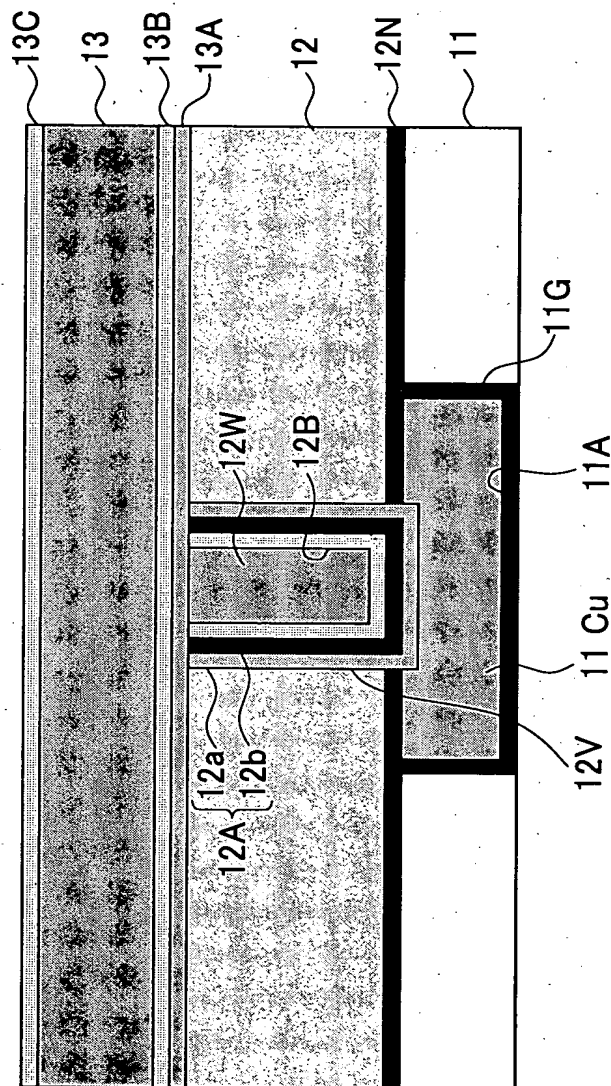
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FIG.1



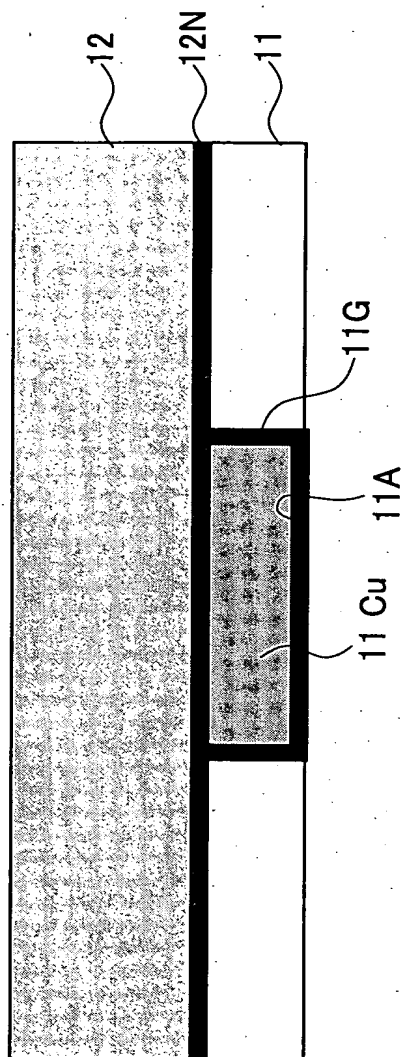


FIG.2A

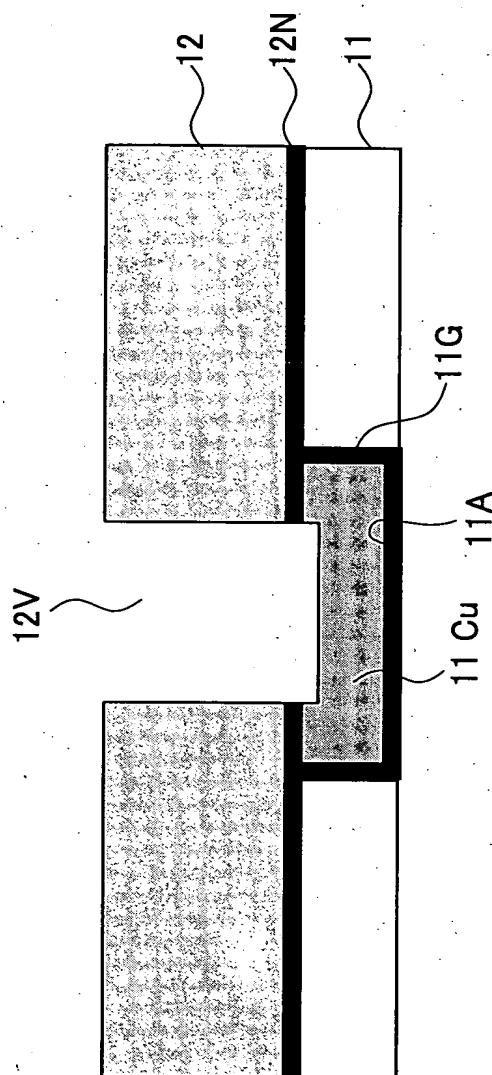


FIG.2B

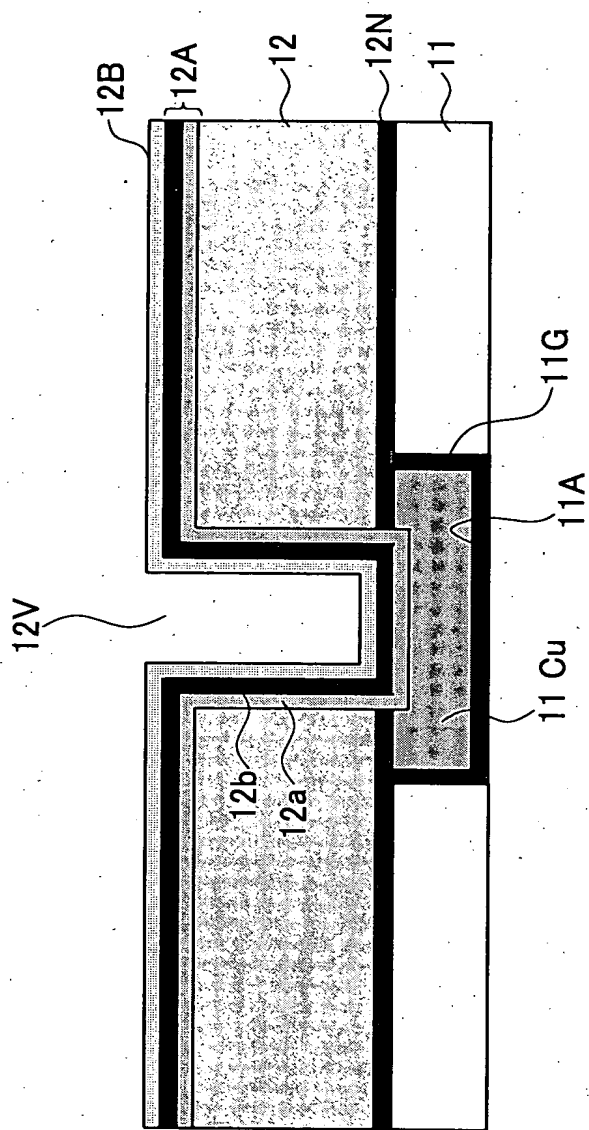


FIG. 2C

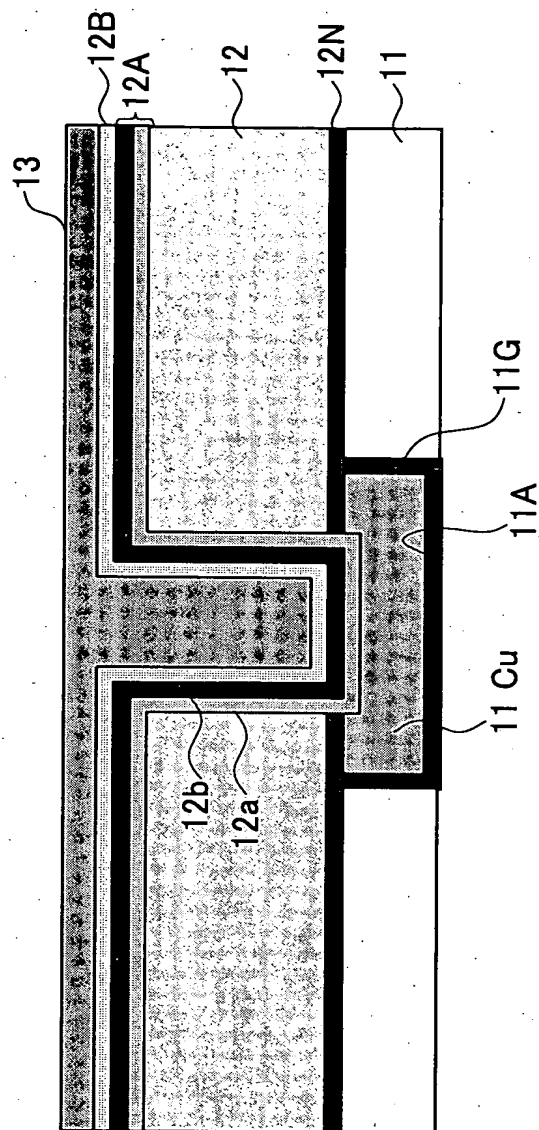


FIG. 2D

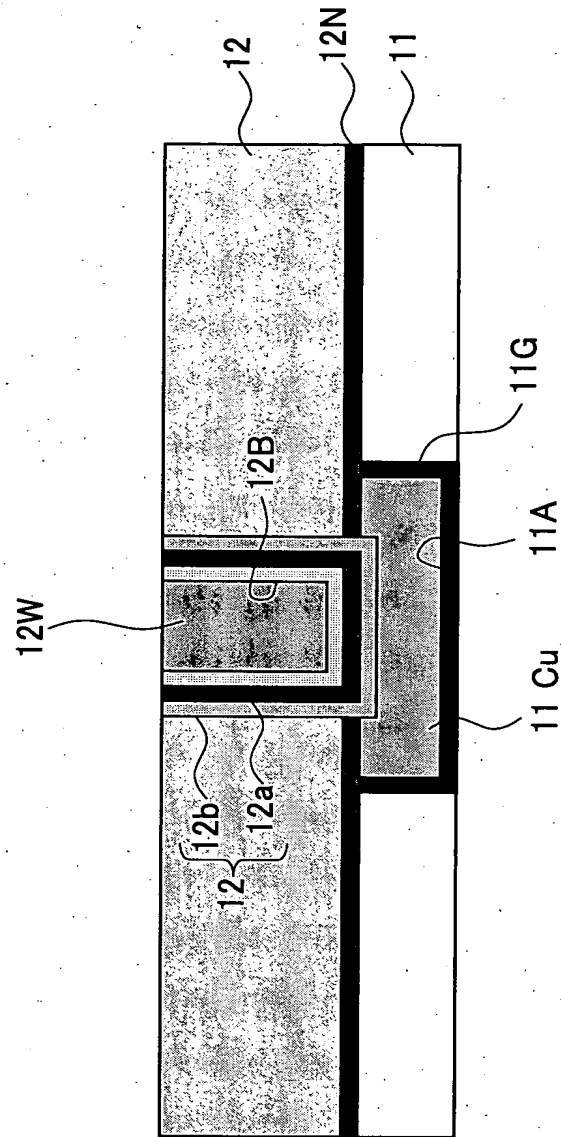


FIG. 2E

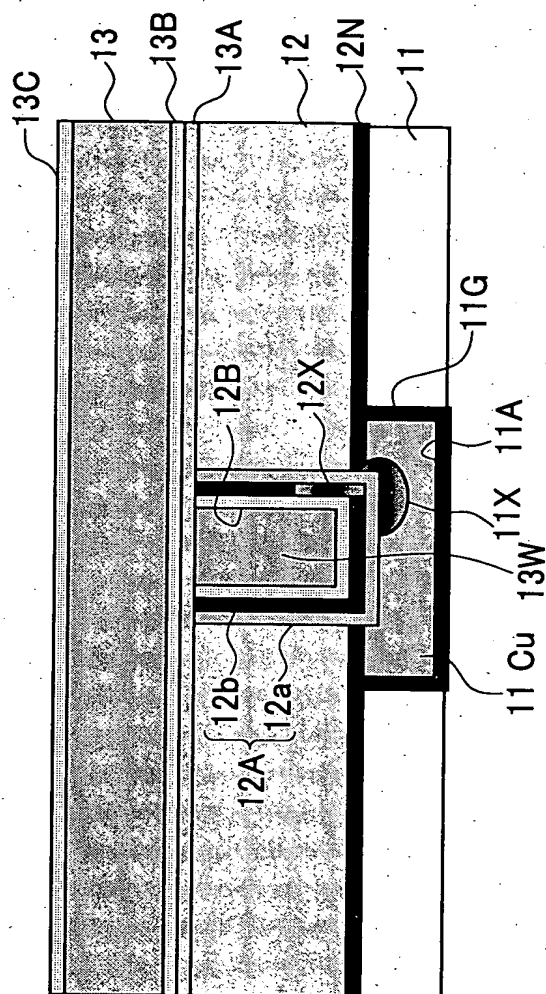


FIG.3A

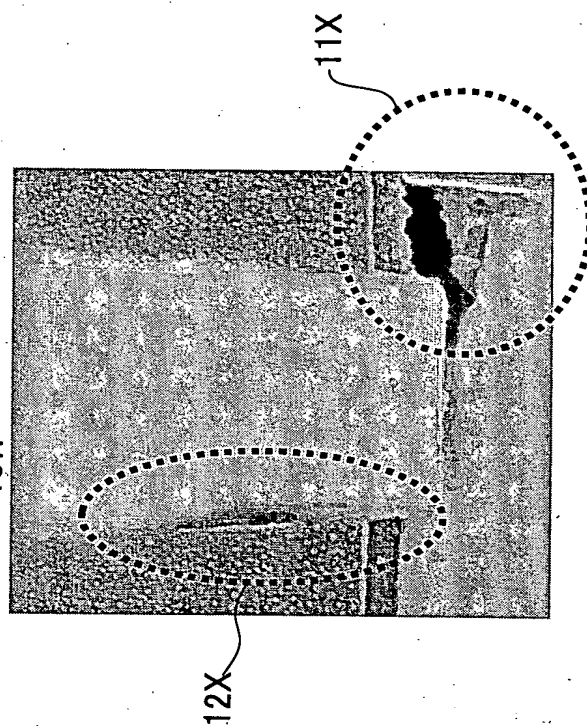
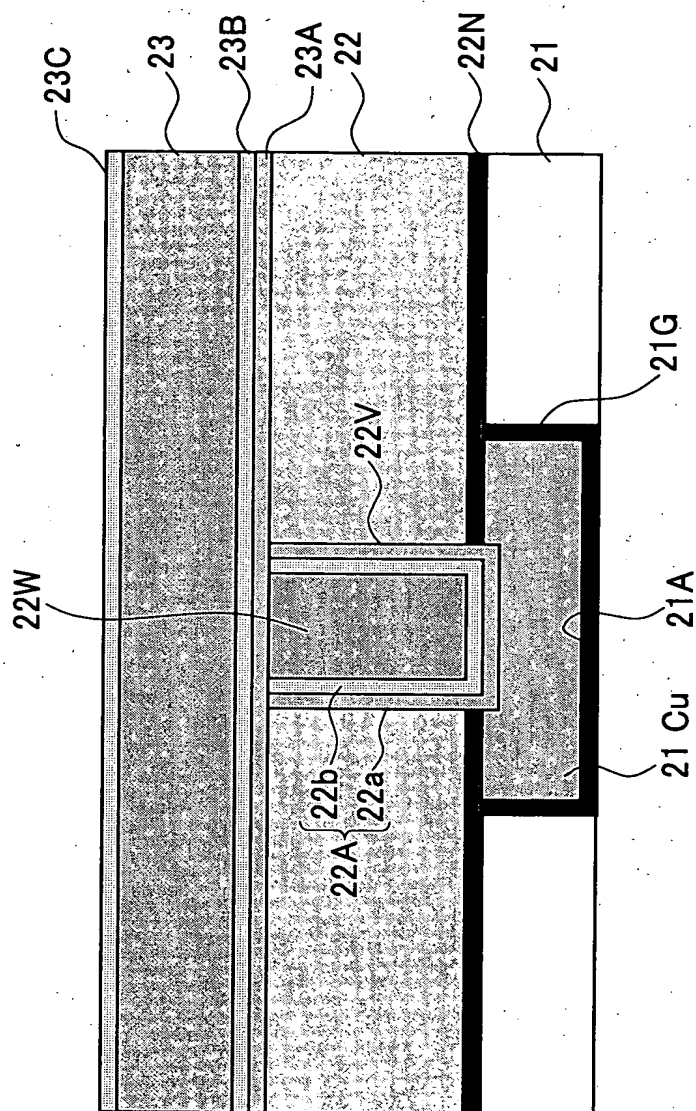


FIG.3B

FIG.4



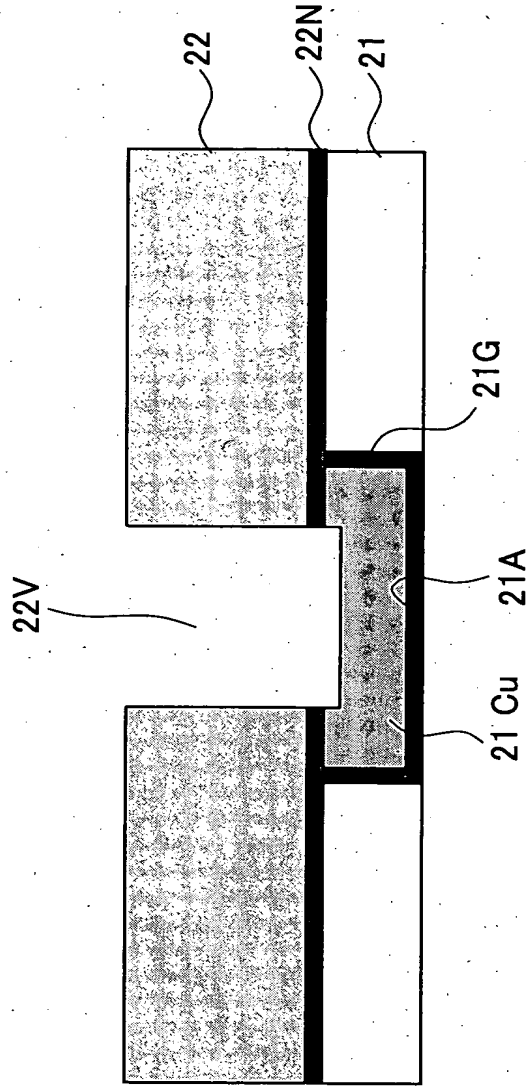


FIG.5A

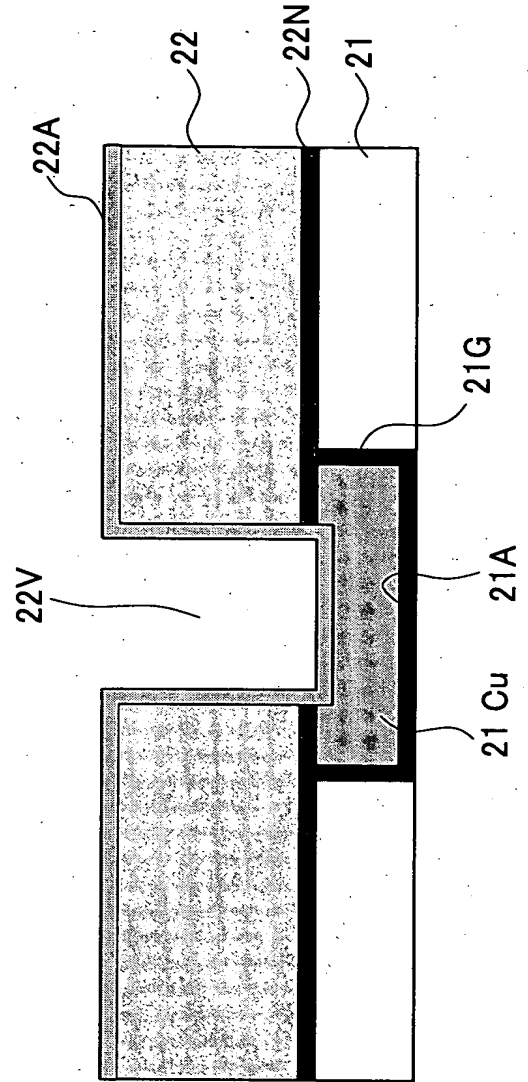


FIG.5B

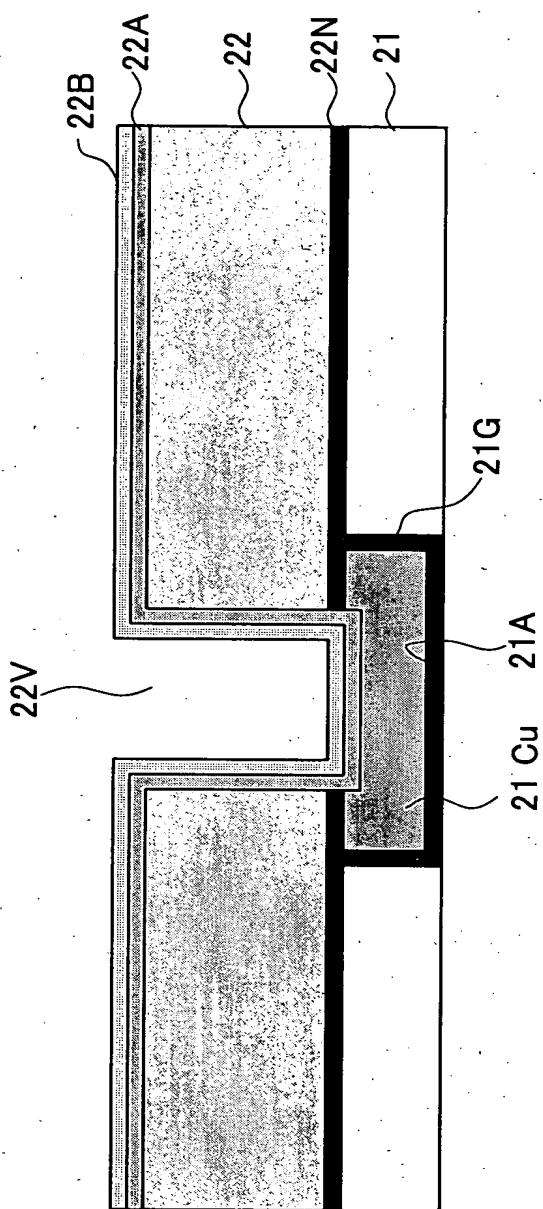


FIG. 5C

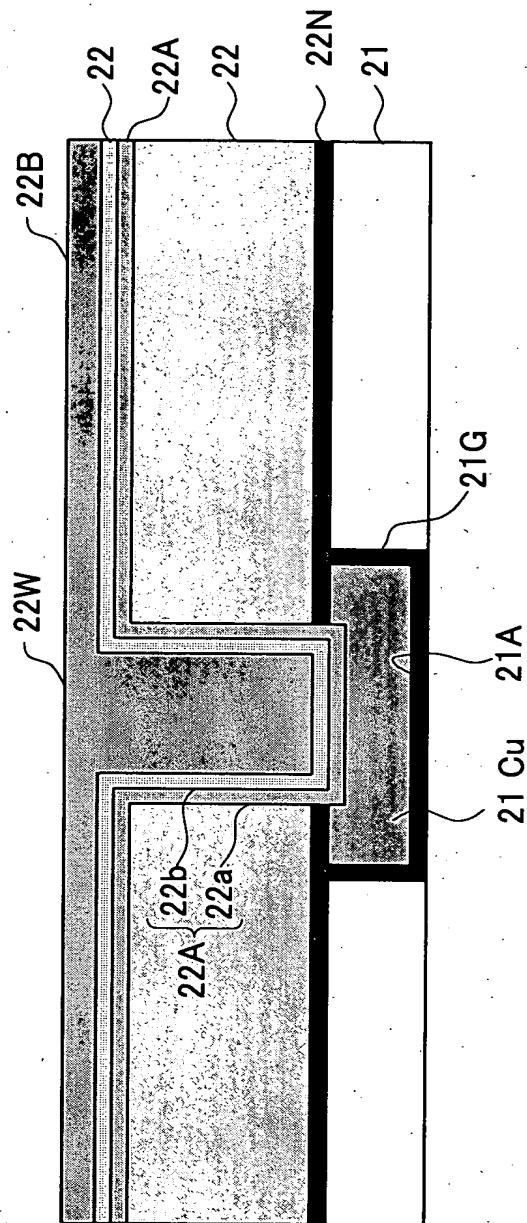
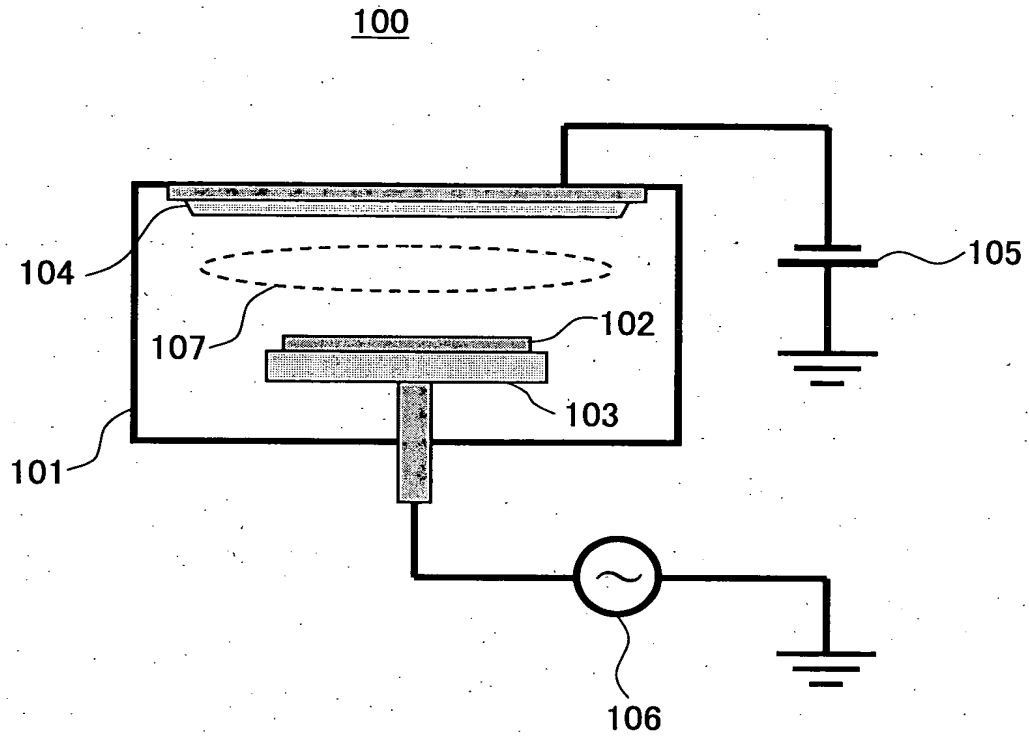


FIG. 5D

FIG.6



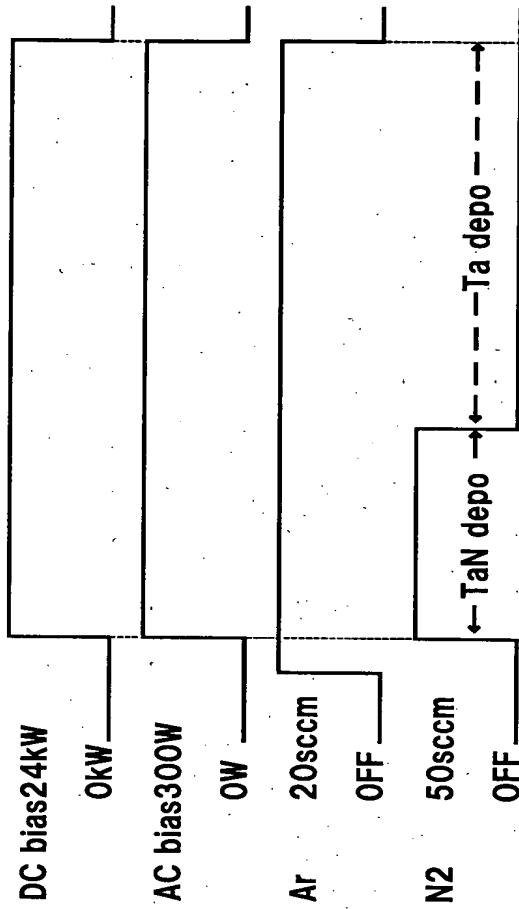


FIG. 7A

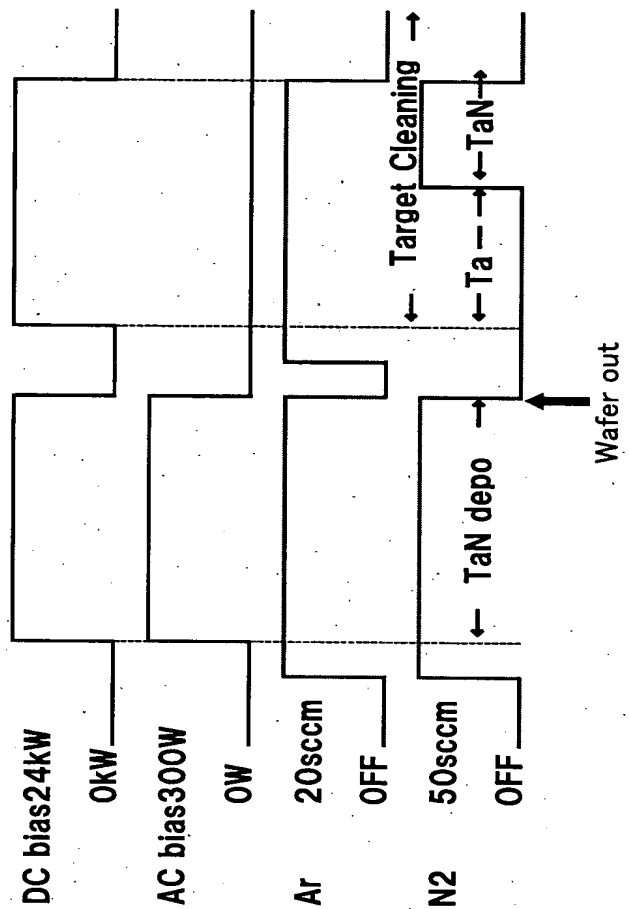


FIG. 7B

FIG.8

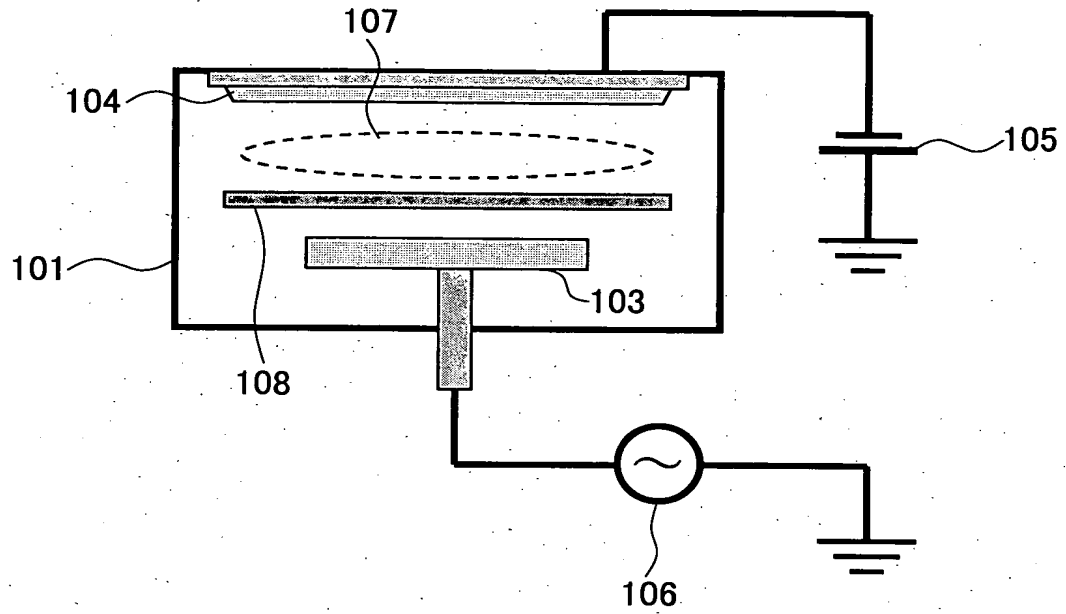
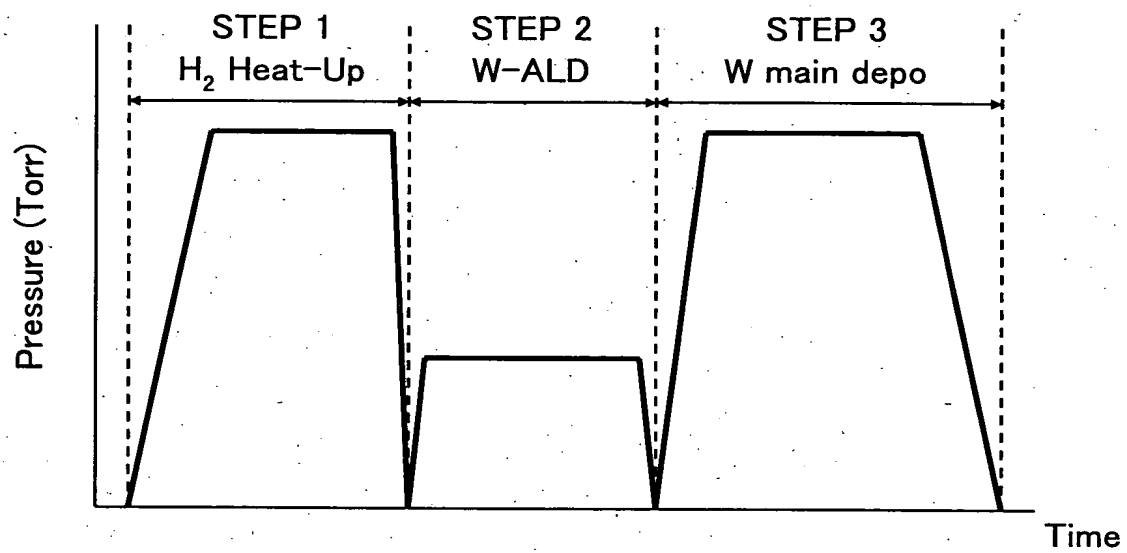


FIG.9



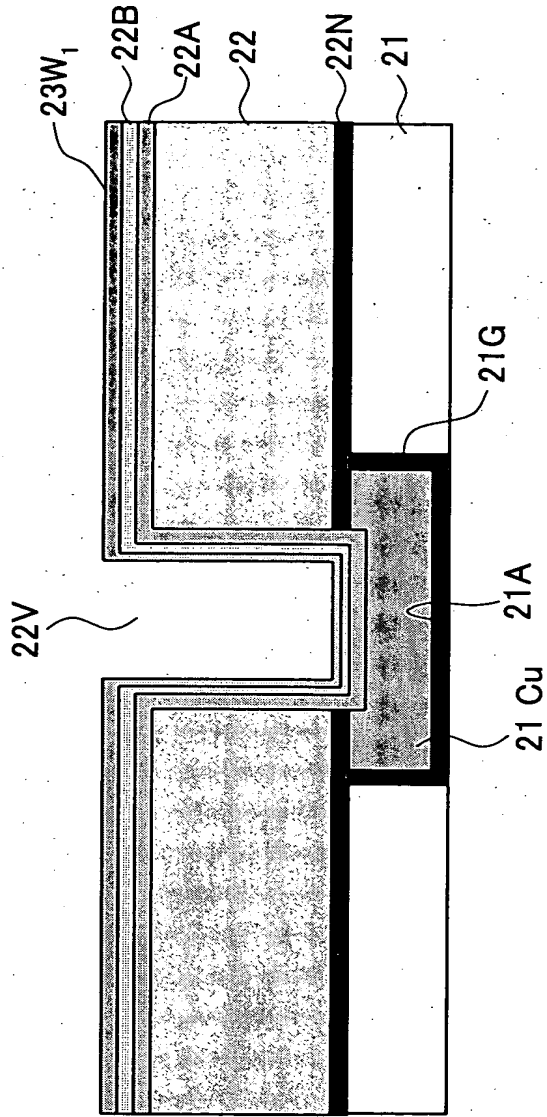


FIG.10A

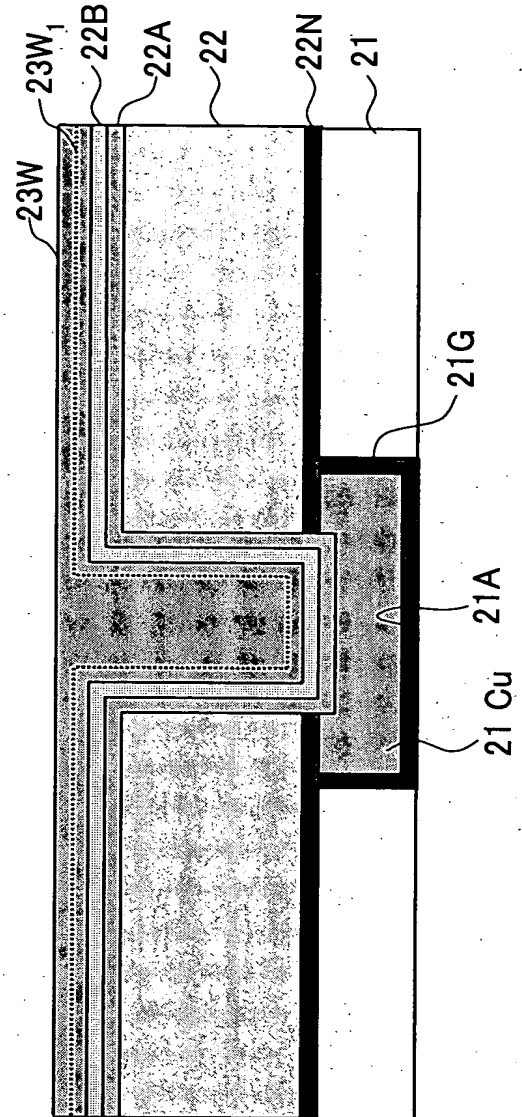
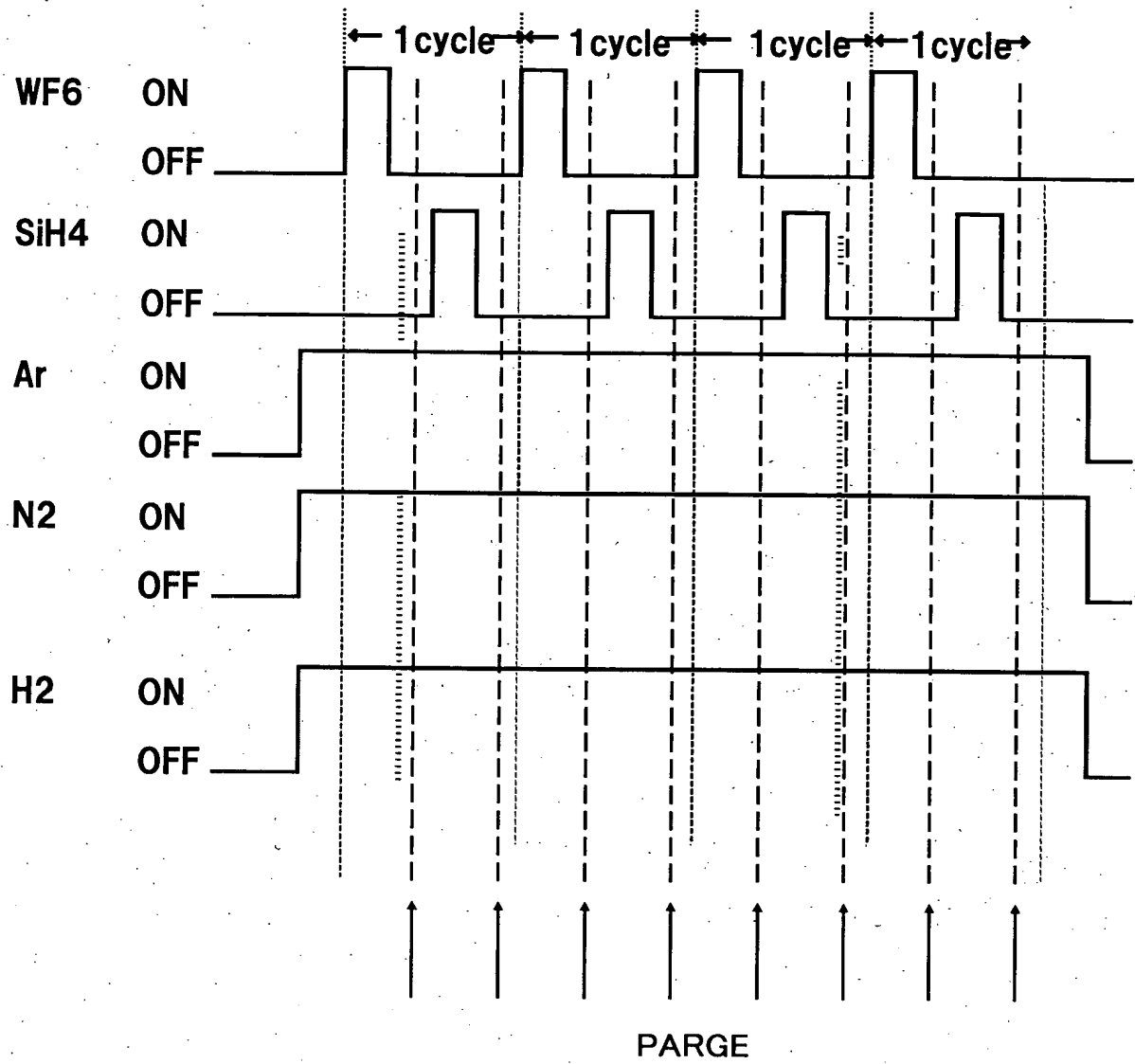


FIG.10B

FIG.11



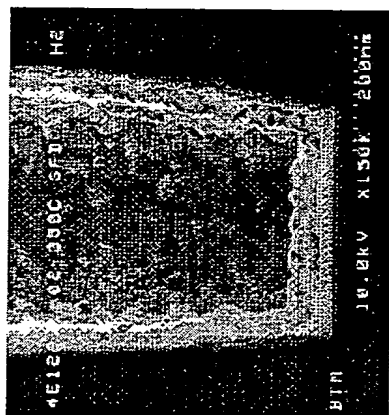


FIG.12A

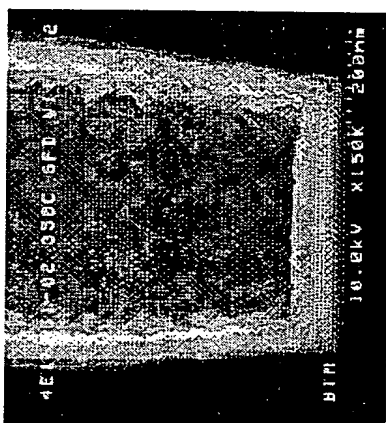


FIG.12B

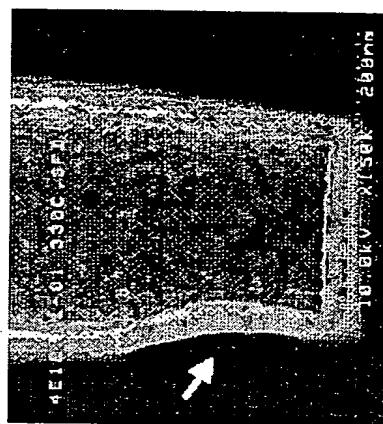


FIG.12C

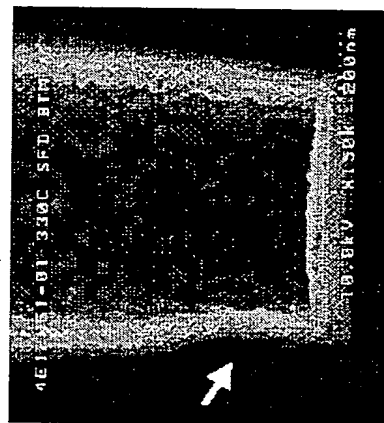


FIG.12D

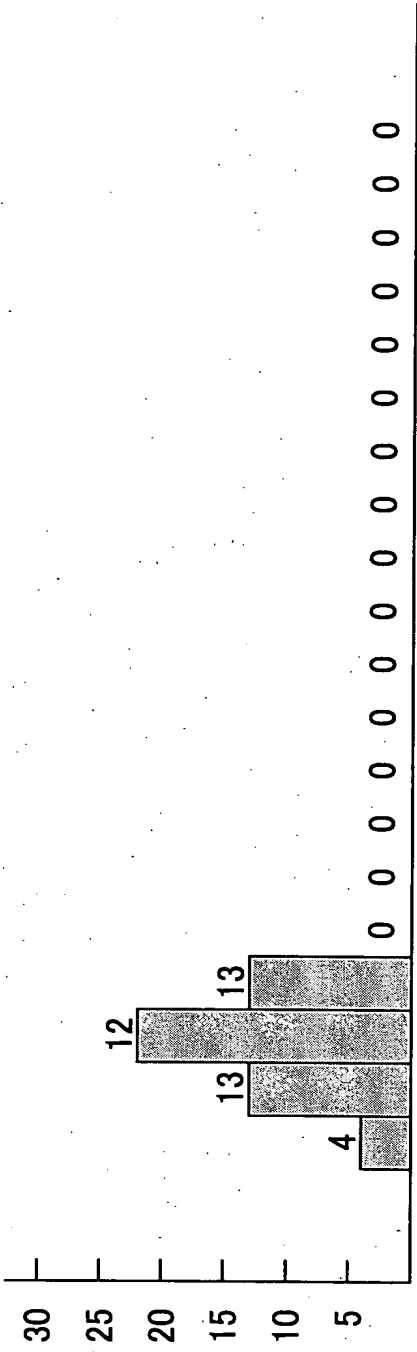


FIG.13A

PRESENT INVENTION

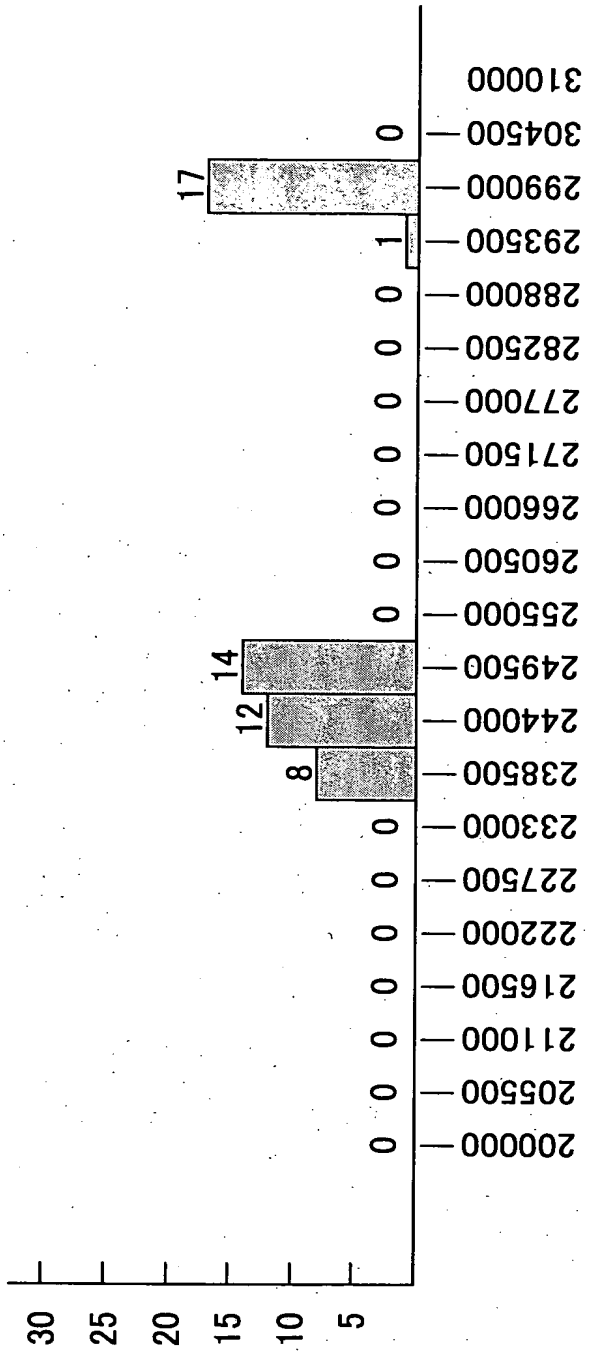


FIG.13B

CONVENTIONAL

CHAIN RESISTANCE ( $\Omega$ )

FIG.14

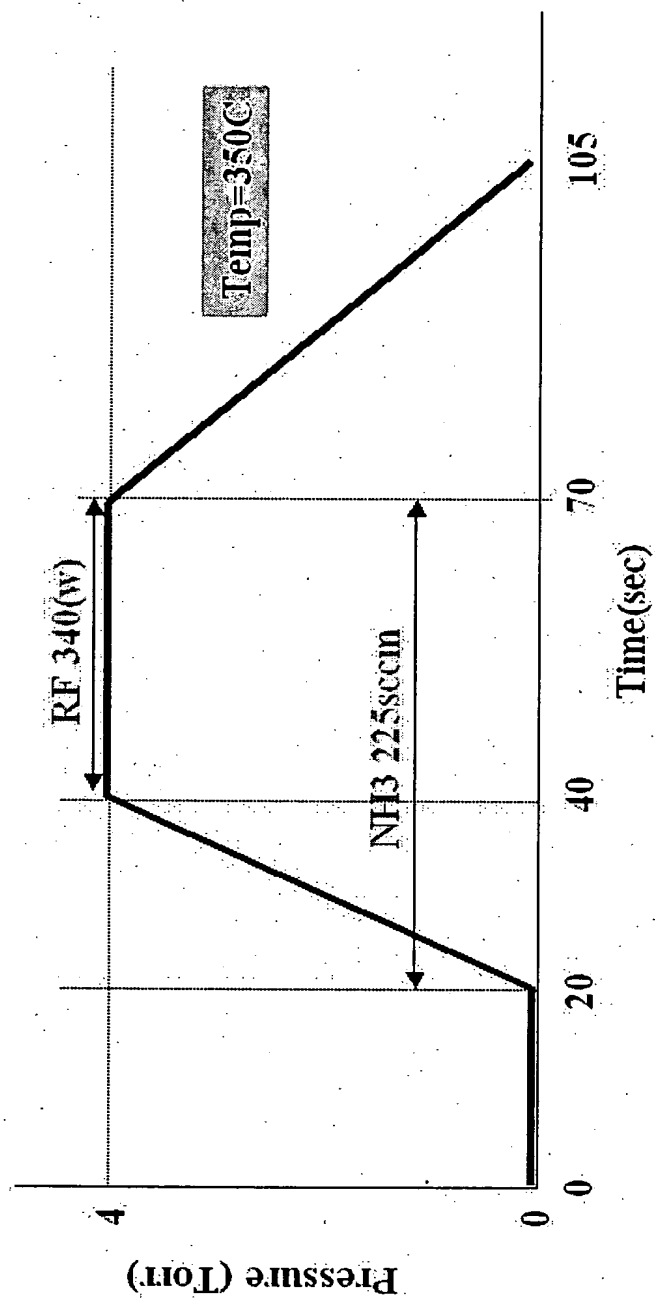
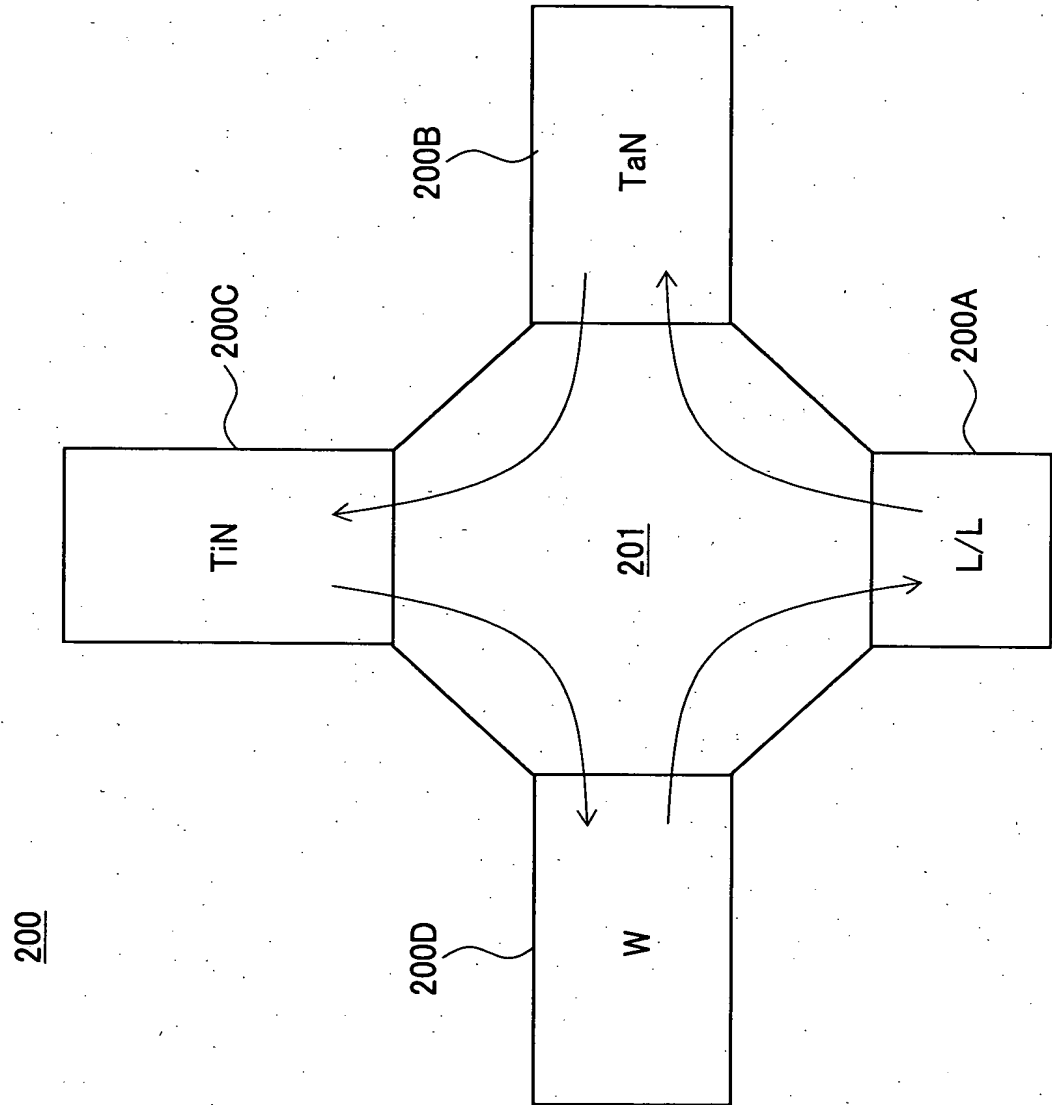


FIG.15



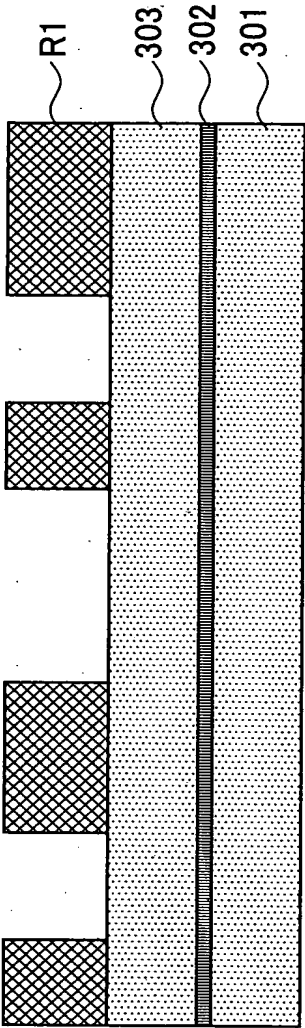


FIG.16A

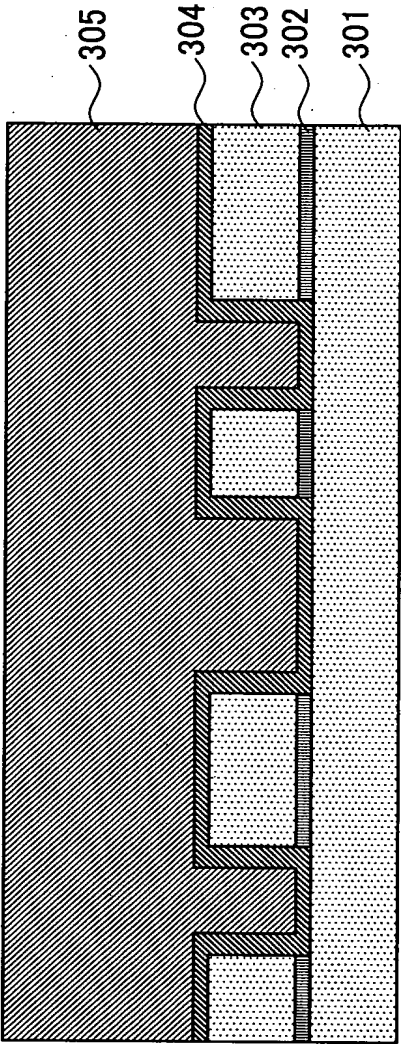
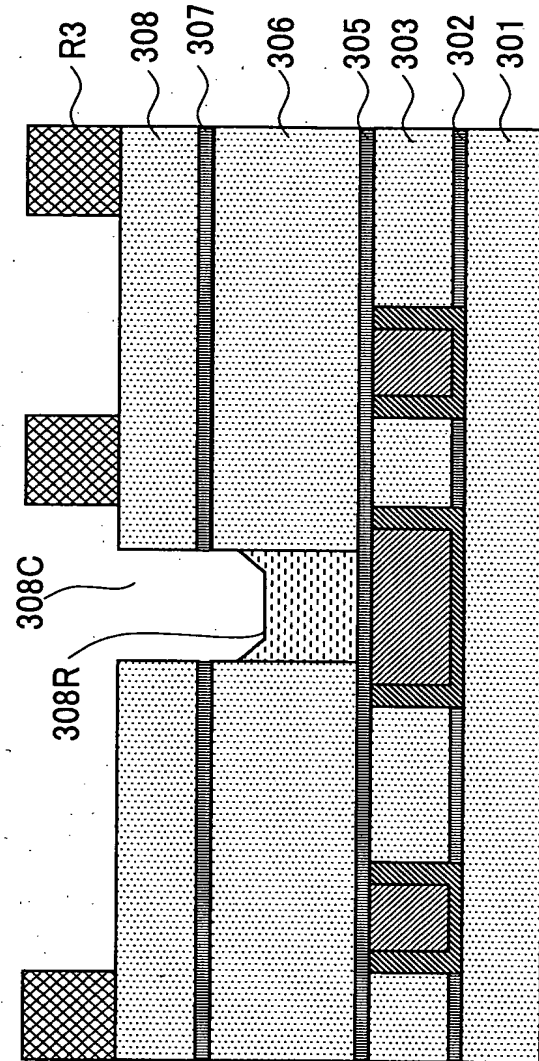
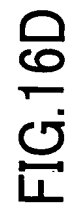


FIG.16B



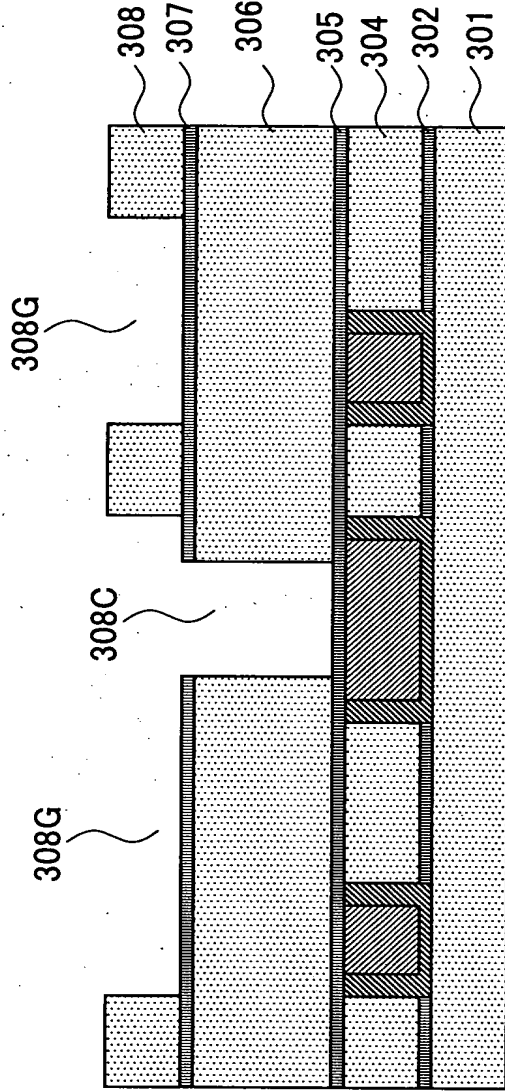


FIG. 16E

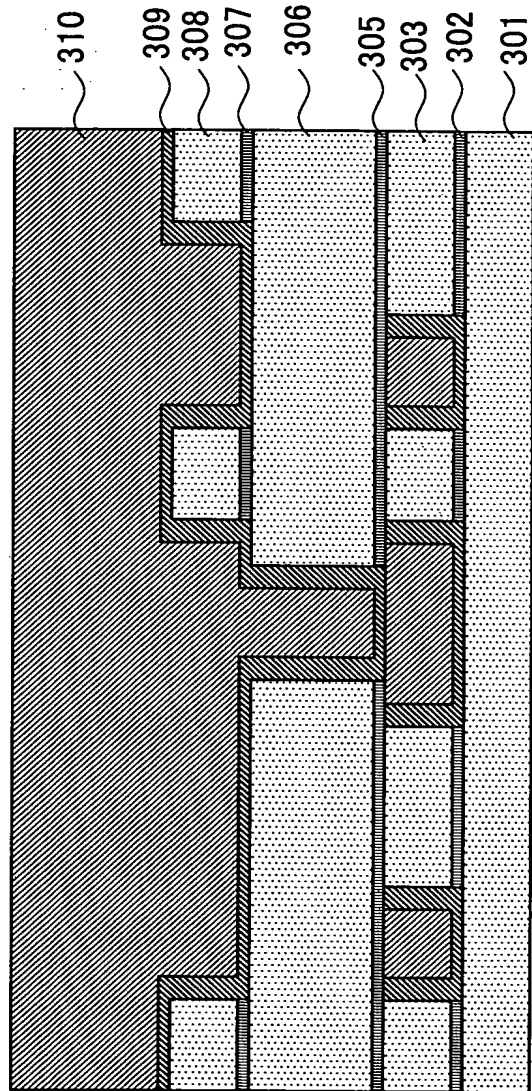
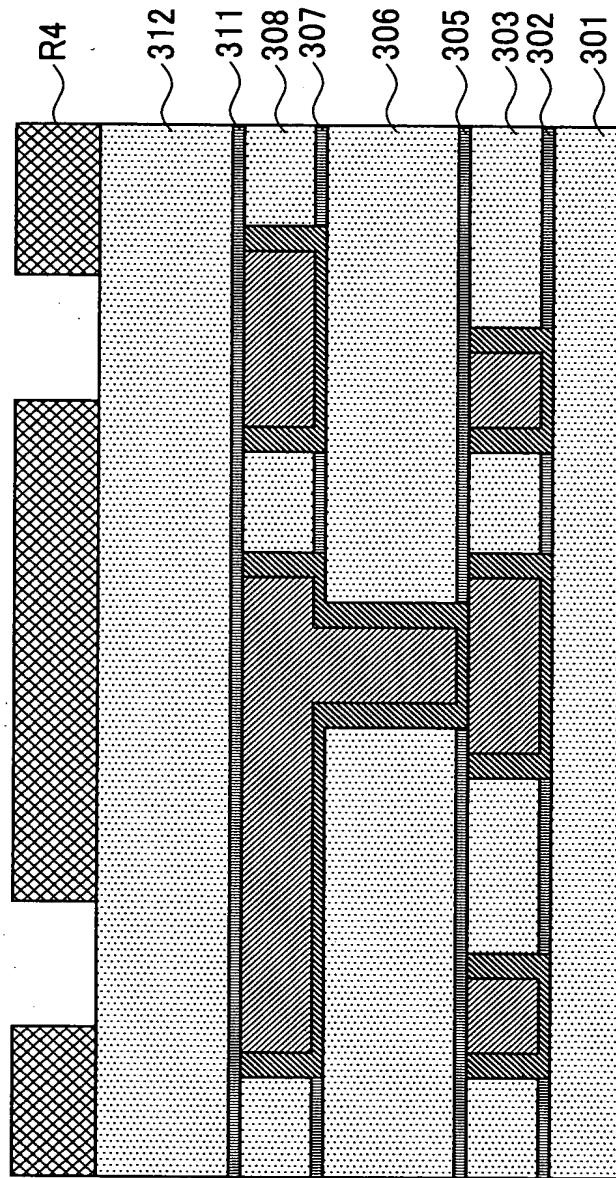


FIG. 16F



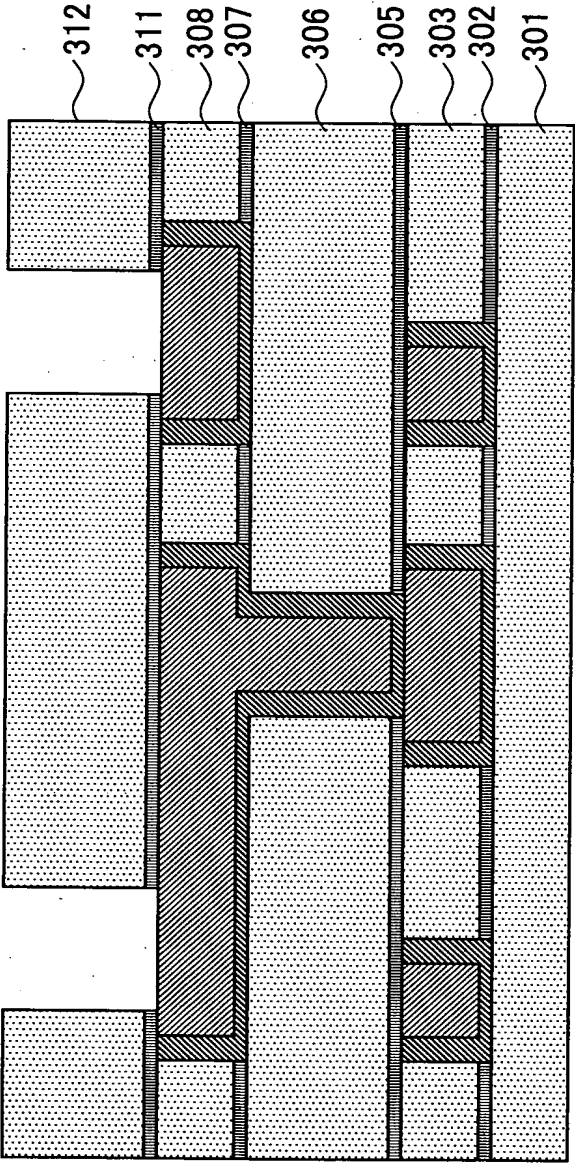


FIG. 16H

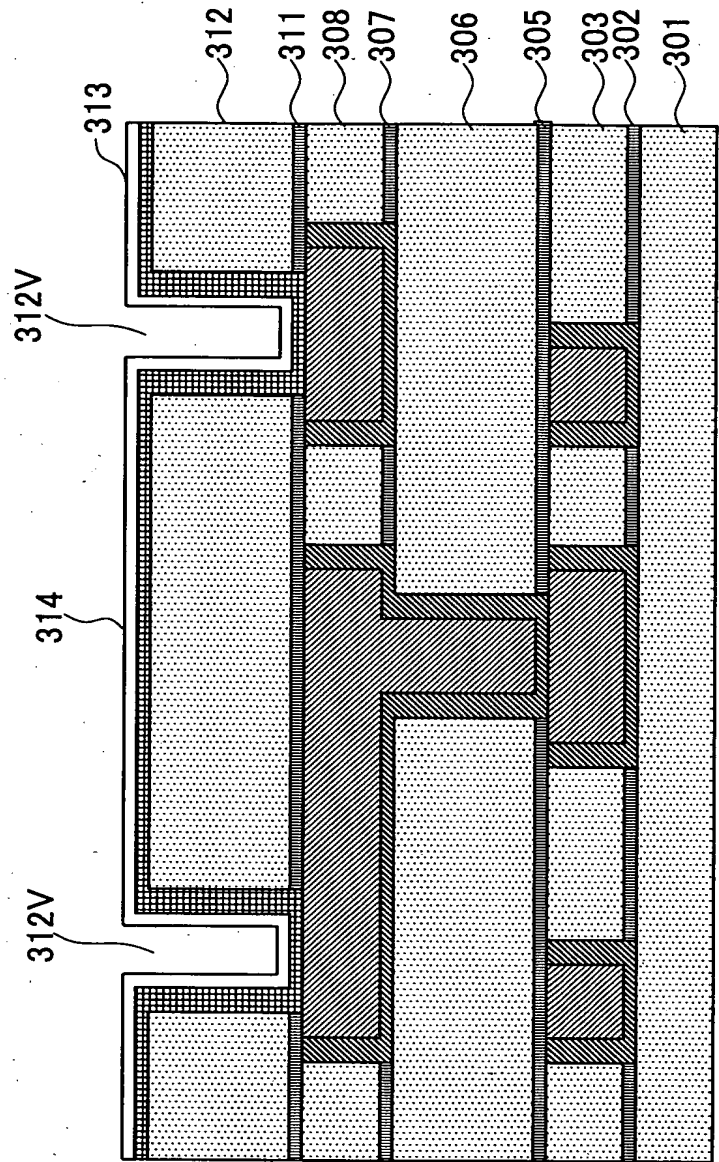


FIG.16I

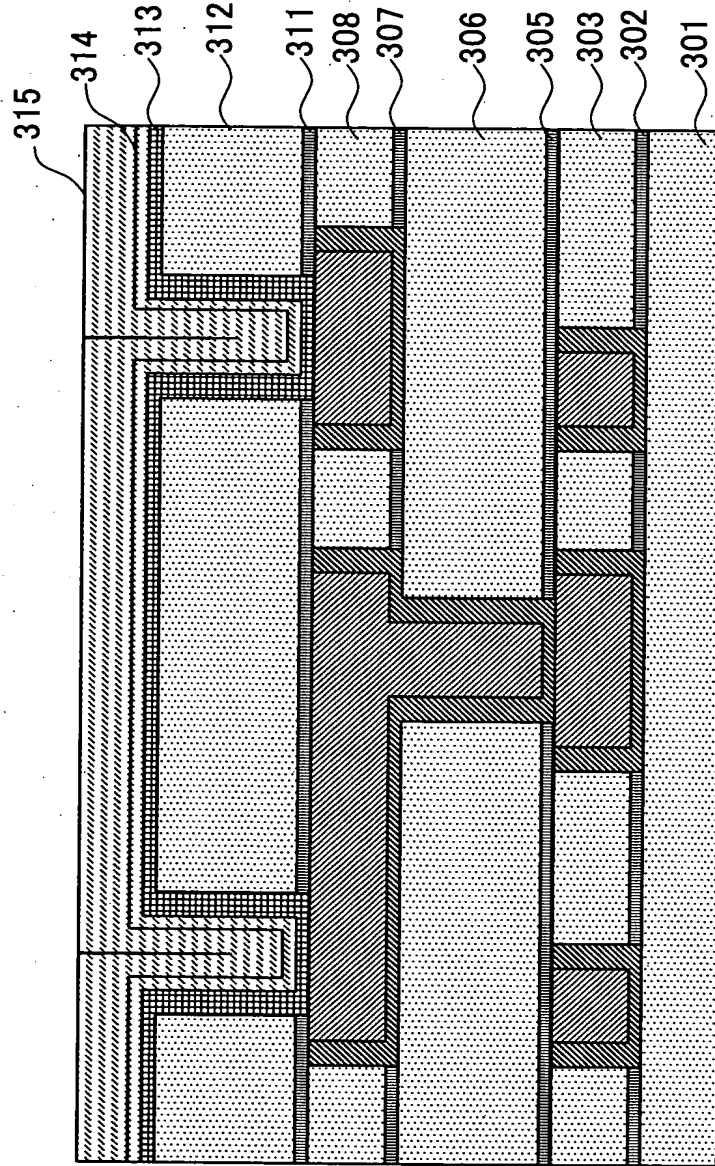


FIG.16J

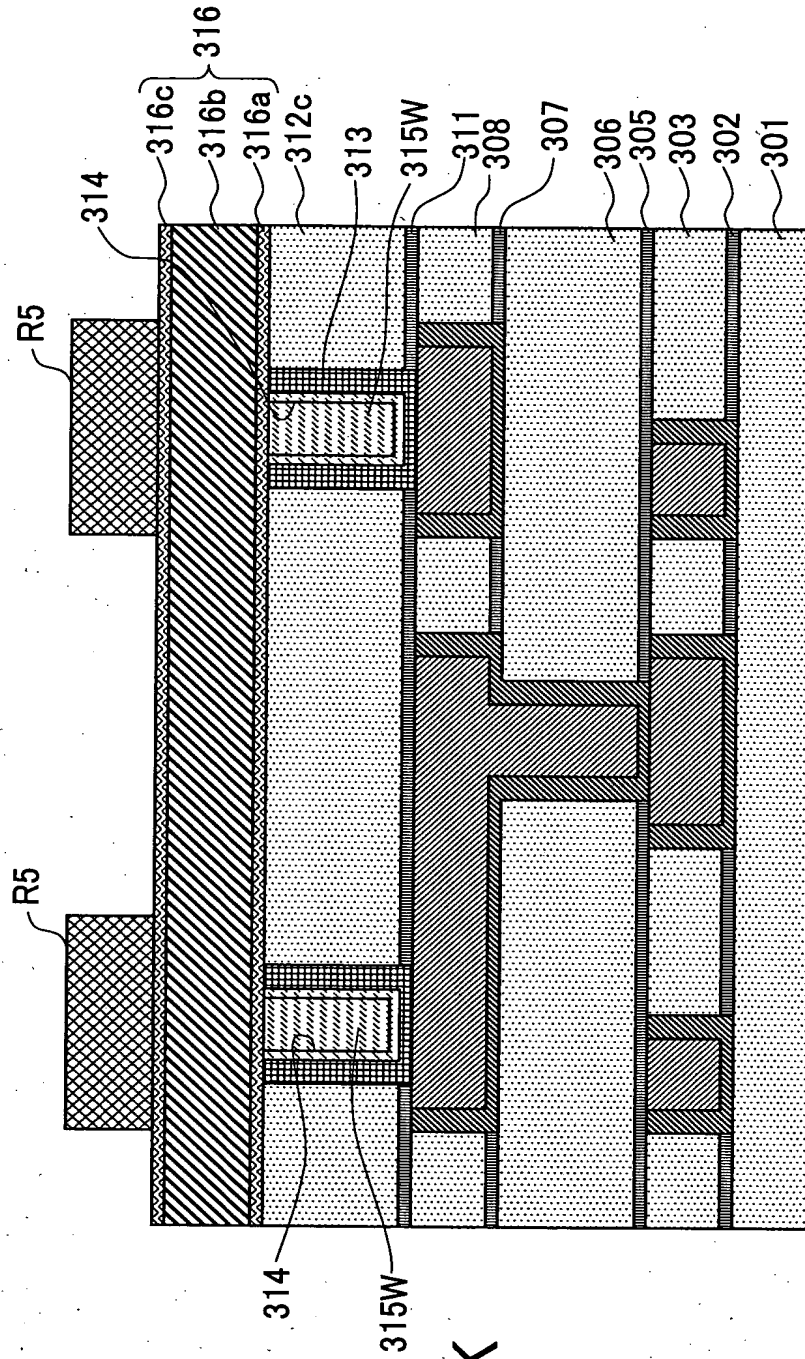


FIG. 16K

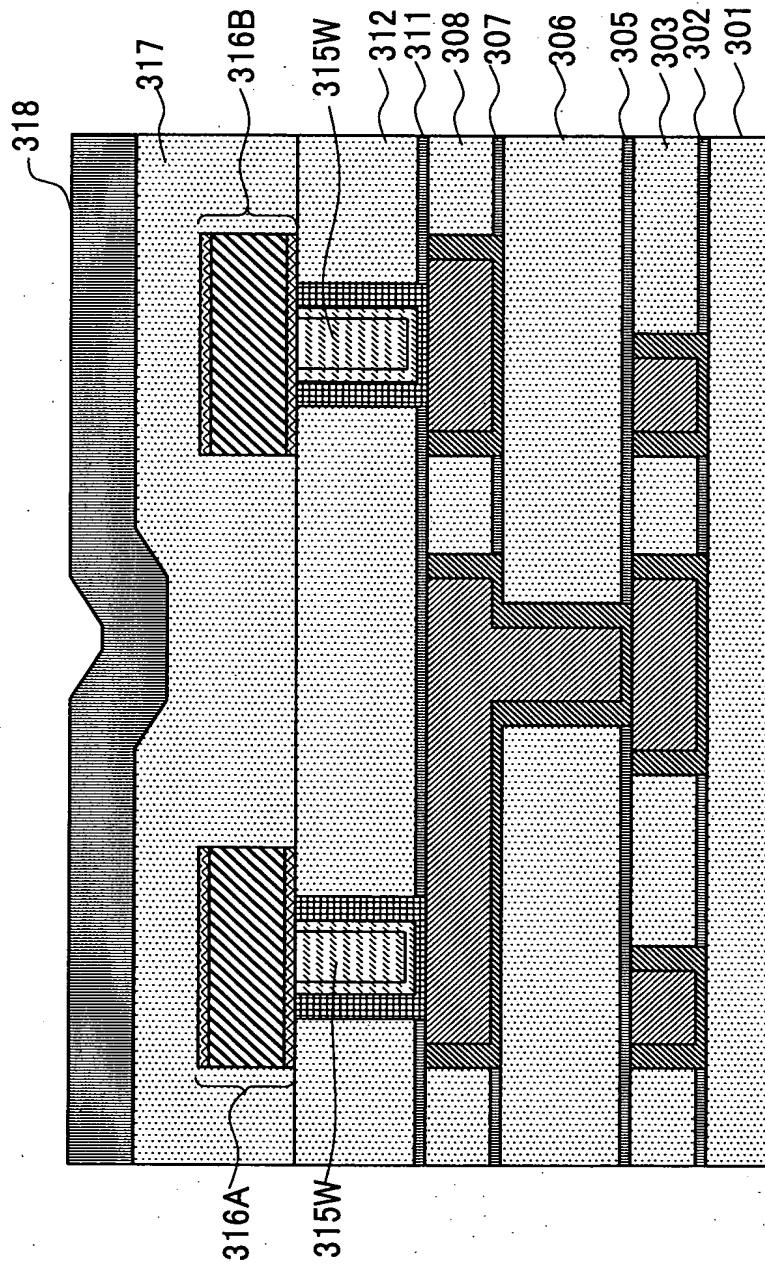


FIG.16L

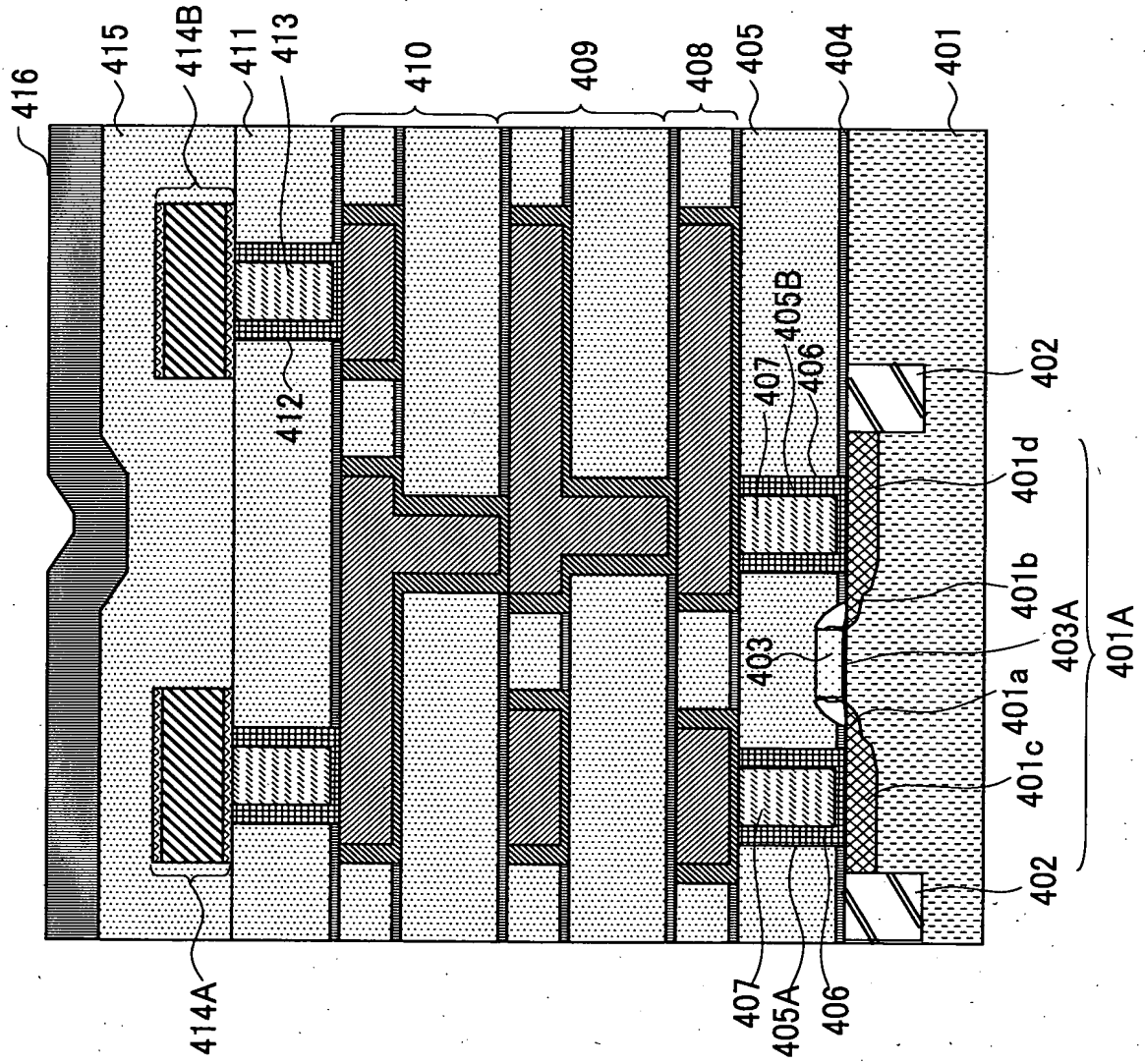


FIG.17